

# E4400



## Industrial Combustion Gas & Emissions Analyzer

Providing the latest in Combustion Gas & Emissions Analyzers for Boiler, Engine, Furnace, and other Combustion Applications

- Up To FOUR Gas Sensors
- LOW NOx and True NOx Capable
- CO Sensor w/ NOx Filter
- Built-In NON-THERMAL Printer
- Draft & Differential Pressure Meter
- 2 Channel Thermometer
- CO with 1 ppm Resolution
- Rechargeable Lithium Ion Battery
- ZOOM Function
- Immediate Response Time
- External Condensation Trap
- 900 Test Internal Memory
- PC Software with BlueTooth & USB Communications
- Unbreakable Metal Probe & Hose Connections



O<sub>2</sub>

CO<sub>2</sub>

CO

NO

NO<sub>2</sub>

NO<sub>x</sub>

SO<sub>2</sub>

CxHy

Efficiency & Excess Air

Tair Tgas

Draft & Pressure



LOW NOx Sensors Available



Dilution Pump For CO Auto-Range Measurements Up To 50,000 ppm



Field Replaceable Pre-Calibrated Sensors

**E Instruments International**

**www.E-Inst.com**

P: 215-750-1212 F: 215-750-1399 A: 172 Middletown Blvd, Ste B201 Langhorne, PA 19047

# E4400 Features



## Internal Impact Printer

A built-in impact printer uses **NON-THERMAL** paper rolls for easy printing of data without extra parts or communications needed.



PC Software Package For Unlimited Data Storage

## Pre-Calibrated Gas Sensors

The field-replaceable, pre-calibrated gas sensors can easily be replaced in the field to provide a convenient way to minimize costly downtime!

Magnetic Support For "Hands-Free" Operations

## Probes & Hoses

**Standard:** 12"/300mm Probe, 1470°F/800°C max, with 10'/3m Dual Hose

**Long:** 30"/750mm Probe, 1470°F/800°C max, with 10'/3m Dual Hose

**Long & High Temp:** 40"/1m Probe, 2190°F/1200°C max, with 10'/3m Hose

**Hose Extensions:** 10'/3m Lengths



## Unbreakable Metal Connections



**All E4400 include:** built-in impact printer, draft/pressure & temperature measurements, calculations for CO<sub>2</sub>, efficiency & excess air, rechargeable batteries & AC charger, gas sampling probe & hoses, water trap with filter cartridge, protective rubber holster with magnetic supports, internal memory, PC software package with USB cable, operating manual, calibration certificate, & ABS hard plastic carrying case

| Parameter  | Sensor          | Range                         | Resolution               | Accuracy   |
|--|-----------------|-------------------------------|--------------------------|--|
| O <sub>2</sub>   | Electrochemical | 0 - 25%                       | 0.1%                     | ±0.2% vol  |
| CO   | Electrochemical | 0 - 8000 ppm                  | 1 ppm                    | ±10 ppm (0-200ppm)<br>±5% rdg (201-2000ppm)<br>±10% rdg (2001-8000ppm) |
| H <sub>2</sub> Compensated<br>w/ Built-in NO <sub>x</sub> Filter |                 |                               |                          |  |
| CO DILUTED   | Electrochemical | 0.8% - 5.00%                  | 0.01%                    | ±10% rdg   |
| CO <sub>2</sub>  | Calculated      | 0 - 99.9%                     | 0.1%                     |  |
| NO   | Electrochemical | 0 - 5000 ppm                  | 1 ppm                    | ±5 ppm (0-100ppm)<br>±5% rdg (101-5000ppm)                             |
| NO <sub>2</sub>  | Electrochemical | 0 - 1000 ppm                  | 1 ppm                    | ±5 ppm (0-100ppm)<br>±5% rdg (101-1000ppm)                             |
| Low NO and/or<br>Low NO <sub>2</sub>                             | Electrochemical | 0 - 500 ppm                   | 0.1 ppm                  | ±2 ppm (0.0-40.0ppm)<br>±5% rdg (40.1-500.0ppm)                        |
| NO <sub>x</sub>  | Calculated      | 0 - 5000 ppm                  | 1 ppm                    |  |
| SO <sub>2</sub>  | Electrochemical | 0 - 5000 ppm                  | 1 ppm                    | ±5 ppm (0-100ppm)<br>±5% rdg (101-5000ppm)                             |
| CxHy   | Pellistor       | 0 - 5 %                       | 0.01 %                   | ±5 % full scale  |
| Tair   | Pt100           | -10 to 212°F<br>-10 to 100°C  | 0.1°F<br>0.1°C           | ± 1°F<br>± 1°C   |
| Tgas   | Tc K            | -4 to 2280°F<br>-20 to 1250°C | 0.1°F<br>0.1°C           | ±0.5°C (-20 to 100°C)<br>±0.5% rdg (101 to 1250°C)                     |
| Pressure/Draft   | Semiconductor   | ± 0 - 80 inH <sub>2</sub> O   | 0.001 inH <sub>2</sub> O | ±1.0% rdg  |
| Excess Air   | Calculated      | 0 - 850 %                     | 1 %                      |  |
| Efficiency   | Calculated      | 0 - 100 %                     | 0.1%                     |  |

## Ordering Information

| Model No. | Description   |
|-----------|---|
| E4400-3D  | E4400 with O <sub>2</sub> , CO, NO/NO <sub>x</sub> gas sensors and CO Dilution Auto-Range to 50,000 ppm                   |
| E4400-N   | E4400 with O <sub>2</sub> , CO, NO/NO <sub>x</sub> , NO <sub>2</sub> gas sensors and CO Dilution Auto-Range to 50,000 ppm |
| E4400-S   | E4400 with O <sub>2</sub> , CO, NO/NO <sub>x</sub> , SO <sub>2</sub> gas sensors and CO Dilution Auto-Range to 50,000 ppm |
| E4400-C   | E4400 with O <sub>2</sub> , CO, NO/NO <sub>x</sub> , CxHy gas sensors and CO Dilution Auto-Range to 50,000 ppm            |

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